

Paper F RCE

CLEAN VERSION FOR EXAMINER'S CONVENIENCE

1007 # 4 vs Pmt

C=I

= 1. (PREVIOUSLY AMENDED) An isolated DNA molecule comprising a nucleotide sequence encoding a protein comprising the amino acid sequence of SEQ ID NO:4, wherein said protein has lysozyme activity.

2. (CANCELLED)

81-521 # 3 vs DNA

C=I

= 3. (PREVIOUSLY AMENDED) The DNA molecule of Claim 1 wherein said nucleotide sequence comprises the nucleotide sequence of nucleotides 81-521 of SEQ ID NO:3.

4. (CANCELLED)

5. (CANCELLED)

= 6. (ORIGINAL) A vector containing the DNA sequence of Claim 1.

= 7. (ORIGINAL) A host cell transformed by the vector of Claim 6.

= 8. (PREVIOUSLY AMENDED) The host cell of claim 7 which is *E. coli*.

9. (PREVIOUSLY AMENDED) The host cell of claim 7 which is a eukaryotic cell.

✓ 10. (PREVIOUSLY AMENDED) A method for producing a LYC3 protein having lysozyme activity comprising:

(a) introducing an expression vector for production of LYC3 protein, said vector comprising a nucleotide sequence encoding a protein having the amino acid sequence of SEQ ID NO:4 or ^{consisting} of amino acids 19-146 of SEQ ID NO:4, wherein said nucleotide sequence is operably linked to at least one expression control sequence, into a host cell, thereby forming a recombinant host cell;

19-146 #4 vs DNA

✓ I

(b) culturing the recombinant host cell of (a) under conditions suitable for expression of the DNA molecule encoding the protein, such that LYC3 protein is produced; and

(c) isolating the LYC3 protein so produced.

○ 11. (ORIGINAL) The method of Claim 10 wherein said nucleotide sequence comprises nucleotides 81-521 of SEQ ID NO:3.

12. (CANCELLED)

13. (CANCELLED)

14. (CANCELLED)

= 15. (PREVIOUSLY ADDED) An isolated LYC3 protein having
lysozyme activity comprising a polypeptide having an
amino acid sequence selected from the group consisting
of SEQ ID NO:4 and amino acids 19-146 of SEQ ID NO:4.

100%
#4 vs AA
C = I =

✓ 16. (PREVIOUSLY ADDED) An isolated DNA molecule having a
nucleotide sequence encoding a protein [having] the
amino acid sequence of amino acids 19-146 of SEQ ID
NO:4, wherein said protein has lysozyme activity.

19-146#4 vs AA
C✓

✓ 17. (PREVIOUSLY ADDED) A method for producing a LYC3
protein comprising:

0
duplicated
claim

(a) introducing an expression vector for production
of LYC3 protein, said vector comprising a
nucleotide sequence encoding a polypeptide [having] the
amino acid sequence of SEQ ID NO:4 or
amino acids 19-146 of SEQ ID NO:4, wherein said
nucleotide sequence is operably linked to at
least one expression control sequence, into a

comprising
[having]
consisting
of

host cell, thereby forming a recombinant host cell;

(b) culturing the recombinant host cell of (a) under conditions suitable for expression of the DNA molecule encoding the polypeptide, such that LYC3 protein is produced; and

(c) isolating the LYC3 protein so produced.

7 wherein said nucleotide sequence comprises nucleotides 81-521 of SEQ ID NO:3.

11 18. (NEW) An isolated DNA molecule having a nucleotide sequence encoding a lysozyme consisting of the amino acid sequence of amino acids 19-146 of SEQ ID NO:4, wherein said lysozyme has lysozyme activity.